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or: pCMVSBORT 6; 1st strand cDNA was primed
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326 g 215 t 61 others 4; 125 147 207 267 327 387 447 747 184 244 304 364 424 507 484 567 544 627 604 687 664 724 TTGTCCACCACATGGAAGTCTTCCAGTGCGCCCCCGAGA 807 867 4-CSODA004DA07QP1&cluster=5245.f. Contact ang@lifetech.com URL : crogen.com/ InVitroGen Corporation 1600 pe sequence ID : CSODA004DA07QP1. GGCTCAAGGCTGCGTCCTGTTTGGGATGTCCGACCGTG TCGTGGTGCTCTGGACCGATGGGGACACTGCCTATTTTG GCTTCTCGGCACCACATATCAAGTACGAGCCCATCG CGGCTCCCCGTGAGAGCCCCCTCCCCTATCACATCCCCC AGCTCTCATGGAATGTCAGCTACACCCAGGAGGCCATCC AGCTCTCATGGAATGTCAGCTACACCCAGGAGGCCATCC AGGGGCAGATCCACCTGGATCCCCAGCAGGACTACCAGC CAGAAGGCCTGACCTGCTTTTCAAGAGGCCCTTTTGGCA TGGAGGCCATCAACGCTCGGGCCTGCAGATGGGGCTGC CCAATATCCCCGAACCGGAGTTGCCCTCAGACGCGTGCA ATATCCAGATCCCCAGCCAGGAGACCACGTACTGGTGCT GCGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCA AGGGCCAGATCCCACCTGGATCCCCAGCAGGACTACCAGC CATTGAAGACGCACTGTCCACTTGGTCTACGGGATCC TGGAGGCCATCAACGGCTCGGGCCTGCAGATGGGGCTGC CAGAAGGCCTGACCCTGCTTTTCAAGAGGCCCTTTGGCA CCAATATCCCCGGACCGGAGTTGCCCTCAGACGCGTGCT Gaps 4; Length 1201; Indels core 980.6; DB 9; red. No. 4.5e-202; Mismatches 51; sapiens"

Best Local Similarity 96.1%; Pred. No. 4e-196; Matches 982; Conservative 14; Mismatches 24; Indels 2; Gaps 2;	TCAGTCGCTGGGCCAGCCTGCCCGGCCTAGGGGGGGGGG	/ 61 CAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGGCTCGGCTCCCGTG 120	121 AGAGCCCCTCCCCTATCACATCCCCTGGACCCGGAGGGTCCCTGGAGCTCTCATGGA 180	/ 181 ATGTCAGCTACACCAGGAGGCCATCCATTTCCAGCTCCTGGTGCGGAGGCTCAAGGCTG 240	241 GCGTCCTGTTTGGGATGTCCGACCGTGGCGGAGCTTGAGAACGCAGATCTCGTGGTGCTCT 300	301 GGACCGATGGGGACACTGCCTATTTTGCGGACGCCTGGAGTGACCAGAAGGGGCAGATCC 360	361	463 CCTGCTTTTCAAGAGGCCTTTTGGCACCTGCGACCCCAAGGATTACCTCATTGAAGAGG	481 GCACTGTCCACTTGGTCTACGGGATCCTGGAGGAGCCGTTCCGGTCACTGGAGGCCATCA 540	541 ACGGCTCGGGCTGCAGATGGGCTGCAGAGGGTGCAGCTCCTGAAGCCCAATATCCCG 600	601 AACCGGAGTTGCCCTCAGACGCGTGCACGATGGAGGTCCAAGCTCCAAATATCCAGATCC	643 661 703	721 ACCACATTATCAAGTACCATCGTCACCAGGGCAAGGGCAATGAGGCCATTGTCCACCACA 763 ACCACATTATCAAGTACCAGCCCATCGTCACCAGGGCAAGTGGCGCATTGTCCACCAAGGGCCATCGTCACCAGGCCAATGAGGCCCATTGTCCAGCCCATCGTCACCAGGGCCAATGAGGCCCATTGTCCACCAAGGCCAATGAGGCCCATTGTCACACAGGCCAATGAGGCCCATTGTCACACCAAGGCCAATGAGGCCAATGAGGCCAATCAAGGCCAATCAAGGCCAATCAAGGCCAATCAAGGCCCAACAAGGCCCAATCAAGGCCAATCAAGGCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAGGCCCAATCAAT	781 TGGAAGTCTTCCAGTGCGCCCCCGAGATGGACAGCGTCCCCCACTTCAGCGGGCCCTGCG 	841 ACTCCAAGATGAAACCCGACGCCTCAACTACTGCCGCCACGTGCTGGCCGCCTGGGCCC	901	943 TGGGTGCMAAGGCATTTTAMTAACCARAGGAA	961 CCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACCCACAGGGAGGACGAA	1 6001	-
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Li, (Bases I to 1201)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished
On Feb 13, 2001 this sequence version replaced gi:12779280.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
   325 TCCATTCCTGAGTAAACAGATATTTTCGCCCACCTAAAGGGAAGCCCTGACAACTAT
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Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5245.f
more information about this cluster, see
http://www.genoscope.cns.fr/
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/mol_type="mRNA"

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/clone="CS0bAon01yLll"

/tissue type="NEUROBLASTOMA"

/clone="Texton: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoNV sites of the pCMVSPORT 6 vector. Library was not normalized."

136 a 314 c 363 g 215 t 64 others
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BP 191 91006 EVRY cedex - France
BP 191 9106 EVRY cedex - France
Email: Seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 5245.f For more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSODA001CF06NP1&cluster=5245.f. Contact: Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSODA001CF06NP1.
                                                                                                                                                    EST 09-MAY-2003
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1192)
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                                                                                                                                                 AL515786
AL515786 Homo sapiens NEUROBLASTOMA Homo sapiens CDNA Clone CSODA001YL11 3-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001 this sequence version replaced gi:12779279
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished
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                                                                                                                                                                                                                                                                AL515786.2 GI:30489775
EST.
                                                                                                                                                                                                                                                                                                                              Homo sapiens (human)
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1062 TC 1063
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Contact: Genoscope
Genoscope
Genoscope
BP 191 91006 EVRY Cedex - France
Invitrogen. This sequence belongs to sequence cluster 5245.f For more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq-cSIDC002zbO7QPl&cluster=5245.f. Contact :
Feng Liang Email : fliang@lifetech.com URL :
Feng Liang Email : fliang@lifetech.com URL :
http://full.langth.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSIDC002ZbO7QPl.
Location/Qualifiers
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BX365876 Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED Homo sapiens CDNA clone CSODCO06YBO8 5-PRIME, mRNA sequence.
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/db_xref="taxon:9606"

/clone="CSODCOGOFABORS"

/clone_Tib="Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED"

/clone_Tib="Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED"

/clone_Tib="Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED"

/note="Ist strand cDNA was primed with a NotI-oligo(dT)

primer. Five prime end enriched, double-strand cDNA was

digested with Not I and cloned into the Not I and ECOR V

sites of the pCMVSPORT 6 vector. Library was normalized."

a 338 c 272 g 183 t 9 others
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Li W. B., Gruber, C., Jessee, J. and Polayes, D. Full-length cDNA libraries and normalization
     840 GACTCCAAGATGAAACCCGACCGCCTCAACTACTGCCGCCACGTGCTGGCCGCCTGGGCC
                                                                                                                                                                                                                   GACTCCAAGATGAAACCCGACCCCTCAACTACTGCCGCCACGTGCTGCCGCCTGGGCC
                                                                                                                                                                                                                                                                                        CTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCCTTGCCTTCGGGGGTCCAGGG
                                                                                                                                                                                                                                                                                                                     CTGGGTG-CAAGGCATTTTACTACCCAGAGGAA-SCGGSCTTGCTTTCGGGGGTC--AGG
                                                                                                                                                                                                                                                                                                                                                                                          960 TCCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACCCACTGGTGATAGAAGGACGA
                                                                                 ATGGAAGTCTTCCAGTGCGCCCCCGAGATGGACAGCGTCCCCCCACTTCAGCGGGCCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1333 GCATGTTGAAGAAGGTCGTGTCGGTCCATCCGGGAGATGTGCTCATCACCTCCTGCACGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
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                                                                                                                                                 /organisme."Homo sapiens"
/mol_type="mRNA"
/db_cref="textoxon:9606"
/db_cref="textoxon:9606"
/clone="cSobA001v1.11"
/tissue_type="NEUROBLASTOWA"
/clone_lib="Homo sapiens NEUROBLASTOWA"
/clone_lib="Homo sapiens NEUROBLASTOWA"
/note="Vector: pGNVSPORT 6; lst strand cDNA was primed with a NorI-oligo (dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Nor I and EcoRV sites of the pGMVSPORT 6 vector.
Library was not normalized."
Library was not normalized."
13 others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541 ACGCTCGGCCTGCAGATGGGCTGCAGAGGTGCAGCTCCTGAAGCCCAATATCCCCG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACGCTCGGGCCTGCAGATNGGGCTNCANANGGTNCANCCCTNAAGCCCAATATCCCCG 671
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cgi-bin/cluster.cgi?seq=CSODA001CF06QP1&cluster=5245.f. Contac
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODA001CF06QP1.
Location/Qualifiers
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Matches 980; Conservative
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On Feb 13, 2001 this sequence version replaced gi:12789614.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cadex - France
BP 191 91006 EVRY cadex - France
EMail: seqref@qenoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5245.f For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq-ECSODC015DB10QP1&cluster=5245.f. Contact :
Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSODC015DB10QP1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue type="NEUROBLASTOMA COT 25-NORMALIZED"
/clone_lib="Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED"
/clone=list strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the pCMVSPORT 6 vector. Library was normalized."

316 c 284 g 183 t 10 others
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Chordata, Craniata, Vertebrata, Euteleostomi, Primates, Catarrhini, Hominidae, Homo.
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Mammalla; Eutheria; Primates; Catarrhini; Hon
1 (bases 1 to 993)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full.length cDNA libraries and normalization
Unpublished
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/db_xref="taxon:9606"
/clone="CS0DC015YD20"
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131 120 191 180 250 240 310 300

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                              Score 878.4; DB 9;
Pred. No. 6.1e-180;
0; Mismatches 1;
                              32.2%;
                                                               Conservative
                                              Similarity
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S Li,W B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization

Unpublished

On Feb 13, 2001 this sequence version replaced gi:12778257.

Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 9006 EVRY cedex - France
BP 191 91006 EVRY cedex - France
Email: sequence cons.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5245.f For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgl-bin/cluster.cgl?seq=CLOBB015ZE02RP1&cluster=5245.f. Contact :
Feng Liang Email: fliang@lifetech.com URL:
http://wulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CLOBB015ZE02RP1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="CLOBBOIZED2"
/tissue type="NEUROBLASTOWA"
/tissue type="NEUROBLASTOWA"
/clone lib="Homo sapiens NEUROBLASTOWA"
/note="Vector: pCWVSPORT 6; lst strand cDNA was primed with a NotI-ollgo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library was not normalized."
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

    (bases 1 to 974)

                                                                                            CCAGCCAGGAGACCACGTACTGGTGCTACATTAAGGAGCTTCCAAAGGGSTTCTCTCGGC
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                            TGGGTGCCAAGGCATTTTACTACCC 925
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AUTHORS
TITLE
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                                                                                                                                                                                                     Lumpublished

On Feb 13, 2001 this sequence version replaced gi:12789558.

Contact: Genoscope

Contact: Genoscope

Genoscope - Centre National de Sequencage

Genoscope - Centre National de Sequencage

BP 191 91006 EVRY cedex - France

Email: seqrefe6qenoscope.cns.fr, Web : www.genoscope.cns.fr

Library was constructed by Life Technologies, a division of

Invitrogen. This sequence belongs to sequence cluster 5245.f For

more information about this cluster, see

http://www.genoscope.cns.fr/

cgi-bin/cluster.cgi?seq=CS0DC015DB10NP1&cluster=5245.f. Contact :

Feng Liang Email: fliang@lifetech.com URL :

http://fulllength.invitrogen.com/ InVitroGen Corporation 1600

Faraday Avenue Genoscope sequence ID : CS0DC015BB10NP1.
             EST 23-MAY-2003
#DSZEVG5 HOMO SAPIENS NEUROBLASTOMA COT 25-NORWALIZED HOMO SAPIENS CDNA clone CSODCO15YD20 3-PRIME, MRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /tissue type="INDUMOBLASTOWA COT 25-NORMALIZED"
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/clone_lib="Homo sapiens NEUROBLASTOWA COT 25-NORMALIZED"
/note="list strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the pCMVSPORT 6 vector. Library was normalized."

263 c 337 g 153 t 40 others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       621
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Homo sapiens"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clone="CS0DC015YD20"
                                                                   AL526065.2 GI:31063926
                                                                                                  Homo sapiens (human)
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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Bukaryota, Metazoa, Chordata, Catarrhini, Hominidae, Homo.

Bukaryota, Metazoa, Eutheria, Primates, Catarrhini, Hominidae, Homo.

1 (Mases I to 948)

2 Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

3 Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

4 Unpublished

On Feb 13, 2001 this sequence version replaced gi:12787852.

Contact: Genoscope

Genoscope - Centre National de Sequencage

Brail: Seqrefégenoscope. France

Brail: Seqrefégenoscope. Cns.fr, Web: www.genoscope.cns.fr

Library was constructed by Life Technologies, a division of

Invitrogen. This sequence belongs to sequence cluster 5245.f. For

http://www.genoscope.cns.fr/

cgi-bin/cluster.cgi?seq=CSODCO06DA040Pl&cluster=5245.f. Contact :

Feng Liang Email: filiangalifeceh.com URL:

http://tulllength.invitrogen.com/ Invitrogen Corporation 1600

Faraday Avenue Genoscope squence ID: CSODCO06DA040Pl.

Location/Qualifiers
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AL524359
AL524359.2 GI:31042620
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2173 GGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGGCCGGGGTG
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   CACTGGAAGAGCCCCACCCCACACCACCCACCAGGGCCGAAGCCCTGCTGGCCCCA 543
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Pred. No. 5e-179;
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organism="Homo sapiens"
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11. (James 1 to 347)

12. (James 1 to 347)

13. (James 1 to 347)

14. (James 1 to 347)

15. (James 1 to 347)

16. (James 1 to 347)

17. (James 1 to 347)

18. (James 2 to 347)

18. (James 3 to 347)

19. (James 3 to 347)

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/mol_type="mcMuc suprem."
/db_xref="taxon:9606"
/dclone="CSODCOGOFOBO8"
/tissue type="NEUROBLASTOWA COT 25-NORMALIZED"
/clone_Tib="Homo sapiens NEUROBLASTOWA COT 25-NORMALIZED"
/note="list strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the pCMVSPORT 6 vector. Library was normalized."
a 255 c 303 g 185 t 17 others
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 949)
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96.5%; Pred. No. 5.4e-178;
iive 13; Mismatches 17;
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/tissue type="NEUROBLASTONA"
/clone_lib="Homo sapiens NEUROBLASTOMA"
/clone_lib="Homo sapiens NEUROBLASTOMA"
/clone_lib="Fortor: pCWVSPORT 6; 1st strand cDNA was primed
with a NotI-oligo(dI) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and cloned into
the Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."
                                                                                                                                                                                                                                                                                                                                                                                      1732 CCCTGCCCAAGGTCATCTCCACACTGGAAGAGCCCACCACCACCACCACCAGCAGG 1791
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Best Local Similarity 93.5%; Pred. No. 7.9e-177;
Matches 910; Conservative 28; Mismatches 30;
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                                                         1. .1201
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/db_xref="taxon:9606"
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AL517920 Homo sapiens NEUROBLASTOMA Homo sapiens CDNA clone CSODA004YB14 3-PRIME, mRNA sequence.
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                      GCAGGGACAGCCCGCACAGGTCCAGGGTCCAGCCCTCCGGCCAGCCCTGTTTCCGGCTCA
                                                                                          CTGGGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGGGCCGGGGTGTGGAATCACCGG
                                                                                                                                                                 GAACGCCCCCCCCCCCCCCCCTCCCCGGTGTGCAGCGGGTGCGGGTGCCGCTTAAA
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BX464421
BX464421 Homo sapiens NEUROBLASTOMA Homo sapiens cDNA clone
CS0DA004YB14 5-PRIME, mRNA sequence.
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                          TCCTGGTGCGAGGCTCAAGGCTGCGTCCTGTTTGGGATGTCCGACCGTGGCGAGCTTG
                                                                                                                                                277 AGAACGCAGATCTCGTGGTGCTCTGGACCGATGGGGACACTGCCTATTTTGCGGACGCCT
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                                                                            217 TCCTGGTGCGGAGGCTCAAGGCTGGCGTCCTGTTTGGGATGTCCGACCGTGGCGAGCTTG
                                                                                                                                                                        GGAGTGACCAGAAGGGGCAGATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCAGG
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       362 GGAGTGACCAGAAGGGGCAGATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCTGCAGG
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E 1 (Dases 1 to 974)

II, W B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization

Unpublished

On Feb 13, 2001 this sequence version replaced gi:12789415.

Contact: Genoscope

Genoscope - Centre National de Sequencage

BP 191 91006 ENPX cadex - France

Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr

Library was constructed by Life Technologias, a division of

Invitrogen. This sequence belongs to sequence cluster 5245.f For

more information about this cluster, see

http://www.genoscope.cns.fr/

cgi-bin/cluster.cgi?seq=CSODCO15CC04QPl&cluster=5245.f. Contact :
Feng Ling Manil: fillangelifetech.com URL:
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600

Faraday Avenue Genoscope sequence ID : CSODCO15CC04QPl.
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AL525922.2 GI:31063786
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GGAATTATTAGCACCAGCTTGCTTCTCTCCCGGTGGGGCCAGCGCTGAACAGACCGGGGT
                          GGAATTATTATGCACCVGCTTGCTTCTCTGCGGGGGGCCAGGGGTGAACAGACCGGGGT
                                                                       GGATGGCAGCCTTCATGTACAGCACAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCG
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Pred. No. 5.4e-175;
3; Mismatches 7; Indels 1.
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al Similarity 98.8%;
869; Conservative
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Till (Dases 1 to 966)

15 Li, W. B., Gruber, C., Jessee, J. and Polayes, D.

16 Full-length cDNA libraries and normalization

17 Inubblished

18 Diver, C., Jessee, J. and Polayes, D.

18 Full-length cDNA libraries and normalization

18 Contact: Genoscope content of the sequence version replaced gi:12789624.

19 Contact: Genoscope Centre National de Sequencage

19 19 19 1006 ENRY cedex - France

19 Email: sequef@genoscope.cns.fr, Web: www.genoscope.cns.fr

19 Library was constructed by Life Technologies, a division of

10 Invitrogen. This sequence belongs to sequence cluster 5245.f For

19 http://www.genoscope.cns.fr/

19 cgi-bin/cluster.cgi?seq-CSDCO15CC4NPl&cluster=5245.f. Contact:

19 Feng Liang Email: fliang@lifetech.com URL:

19 Feng Liang Email: fliang@lifetech.com URL:

10 Faraday Avenue Genoscope sequence ID: CSODCO15CC04NPPl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AL526131 Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED Homo sapiens CDNA clone CSODCO15YF07 3-PRIME, mRNA sequence.
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/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the pCMVSPORT 6 vector. Library was normalized."
a 276 c 320 g 176 t
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                    TCACCAAGGGCAATGAGGCCCTTGTCCACCACATGGAAGTTTTCCAGTGCGCCCCCGARA
                                                                                        TGGACAGCGTCCCCCACTTCAGCGGGCCCTGCGACTCCAAGATGAAACCCGACGGCCTCA
                                                                                                                    ACTACTGCCGCCACGTGCTGGCCGCCT-GGGCCCTGGGTGCCAAGGCATTTTACTACCCA
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/clone="CS0DC015YF07"
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                                                                                                                                                                                                                                         / organism="Homo sapiens"
/mol_type="mRNA"
/mol_type="mRNA"
/db_xref="taxon:9666"
/clone="CSODA0d4YB14"
/clone="Tib="Homo sapiens NEUNOBLASTOMA"
/note="Tib="Homo sapiens NEUNOBLASTOMA"
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Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 5245.f Femore information about this cluster, see http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSIDA001ZH10QP1&cluster=5245.f. Contac Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600 Faraday Avenue Genoscope sequence ID: CSIDA001ZH10QP1.
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Pred. No. 5.9e-171;
; Mismatches 36;
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="tcom:9606"
/clone="CLOBB0162H02"
/tlssue type="NRUROBLASTOMA"
/clone lib="Homo sapiens NBUROBLASTOMA"
/note="vector: pCMVSPORT 6; 1st strand cDNA was primed
with a NotI-oligo(dT) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and cloned into
the Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized." 3 others
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       Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Bmail: seqrefégenoscope.cns.fr. web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5604.f Fon
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSOBAF001ZA04_AF00026_l&cluster=5604.f.
Contact: Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSOBAF001ZA04_AF00026_l.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTGCCGCCACGTGGCCGCCTGGCCCTGGGTGCCAAGGCATTTACTACCAGAGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            991 ACCACACCCACTGGTGATAGAAGGACGAAACGACTCCTCAGGCATCCGCTTGTACTACA
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Pred. No. 4.6e-169;
0; Mismatches 21;
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97.6%;
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Matches 839; Conservative
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BX430865 Homo sapiens NEUROBLASTOWA Homo sapiens cDNA clone CLOBB016ZH02 5-FRIME, mRNA sequence.
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 874)

Li,W.B., Gruber,C., Jessee,J. and Polayes,D.

Full-length cDNA libraries and normalization
GTCCAATCCAGCCTTCTT-CCCCCAGGGTCCCCTGCATGGCTGAGAGGGTGTGGGGTGCCC
                                                                                                                                                                                                                                                                                                  TGTTGACCTACCCTGGACCGAGTGGACCACGACCTCGTCCATTTAAACCCGGCTGACTCA
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TCAGTCGCTGGCCCAGCCTGCCCGGCCCCAAGATGCGGAAGGCAGCCTTCATGTACAGCA
                                                               CAGCAGTGGCCATCTTCCTGGTCGTGGCCGCACTGCAGGGCTCGGCTCCCCGTG
                                                                                                   64 CAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGCTCGGGTC
                                                                                                                                                                                             121 AGAGCCCCTCCCCTATCACATCCCCCTGGACCCGGAGGGGTCCCTGGAGCTCTCATGGA
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/mol_type="mRNA"
/mol_type="mRNA"
/db_xref="Laxon:9606"
/clone="IMAGE:802048"
/tissue_type="nauroblastoma, cell line"
/tissue_type="nauroblastoma, cell line"
/tlone="IMAGE" | Clone lib="NIH MGC" |
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at:
http://image.lln.gov
Plate: LLCM2037 row: o column: 09
High quality sequence stop: 675.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ccercicaccacricacc 1610
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5', mRNA sequence.
BQ068978
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S'-GACTAGTTCTAGATCGCGAGCGCCCCT(15)-3'. Size selected >
I'kb for average insert length 1.9 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine); available through Life
Technologies."
19 a 324 c 252 g 166 t 2 others
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 943)
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                                                                                                                  Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
   Tissue Procurement: Dr. James R. Lupski
   CDNA Library Preparation: Life Technologies, Inc.
   CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
   DNA Sequencing by: Agencourt Bioscience Corporation
   Clone distribution: MGC clone distribution information can be
   found through the I.M.A.G.E. Consortium/LLNL at:
   http://image.llnl.gov
   Plate: LLAM13598 row: o column: 23
   High quality sequence stop: 621.
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   i.cation/Qualifiers
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   //sex="manale"
   //sex="manale"
   //sex="manale"
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                                                        NIH-WGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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AGENCOURT 8294403 Lupski sympathetic_trunk Homo sapiens cDNA clone IMAGE:6194209 5', mRNA sequence.
BQ716251
BQ716251.1 GI:21855148
EST.
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NIH-MCC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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/lab_host="DH10B"
/clone_llb="Lupski sympathetic trunk"
/clone_llb="Vector: pCMV-$PORT6 (Life Technologies); Site_1:
NotI; Site_2: Sall; cDNA made by oligo-dT priming.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contect: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLMANISSO row: b column: 02
High quality sequence stop: 695.
                                                                                                                                                   940 TIGCCTICGGGGGTCCAGGGTCCTCCAGATAICTCCGGCCTGGAAGTICACTACCACAACC
                                                                                                                                                                                                                                                                                                                                661 TGGGGGGCTTCAACGCGGGGATCATGGAGCTGGGACTGGTGTACACGCCAGTGATGGCCA
                                                                                                                                                                                                                                                                                                                                                                                                     421 CCCACTTCAGCGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCAACTACTGCCGCC
                                                                           880 ACGTGCTGGCCGCCTGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCC
                                                                                                   481 ACGTGCTGGCCTGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCC
                                                                                                                                                                                      541 TIGCCTICGGGGGTCCAGGTCCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACC
                                                                                                                                                                                                                              1000 CACTGGTGATAGAAGGACGAAACGACTCCTCAGGCATCCGCTTGTACTACACAGCCAAGC
                                                                                                                                                                                                                                                                  601 CACTGGTGATAGAAGGACGANACGACTCCTCAGGCATCCGCTTGTACTACAGCCAAGC
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820 CCCACTTCAGCGGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCAACTACTGCCGCC
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Homo sapiens
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841 GCCCGAAGCCCTGCTTGGGCCCC 863

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/clone libe Libraski sympathetic trunk"
/clone libe Libraski sympathetic trunk"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
NotI; Site_2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCCG-3' and
5'-GACTACTCTACATCGCCAGCGCCCCT(15)-3'. Size selected >
1 kD for average insert length 1.9 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine); available through Life
Technologies."
76 a 283 c 241 g 153 t
                                                                                                                               EST 16-JUL-2002
                                                                                                                   BQ716768
AGENCOURT 8234515 Lupski sympathetic_trunk Homo sapiens cDNA clone
IMAGE:6188720 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     130 TTTACTACCCAGAGGCGAAAGCCGGCCTTGCCTTCGGGGGGTCCAGGGTCCTCCAGATATCTCC 189
                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 853)
                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/Link at:
http://image.llnl.gov
Plate: LiAM13584 row: m column: 09
High quality sequence stop: 621.
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National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
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Pred. No. 2.5e-154;
0; Mismatches 28; Indels 4;
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EST.
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Directionally cloned using the following adaptors: 5'-TCGACCCACGCGGGGGCGCCCT(15)-3'. Size selected > 6'-GACTATCTAGATCCGACGCCCCCT(15)-3'. Size selected > 1 kb for average insert length 1.9 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor Technologies of Medicine); available through Life
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Pred. No. 4.3e-155;
0; Mismatches 27; Indels
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                                                                                                                                                                                                                                                                                                             0; Mismatches
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95.9%;
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/tissue_type="sympathetic trunk"
/dev_stage="adult, 16 yr"
/lab_host="DH10B"
/clone lib="Lupski sympathetic trunk"
/clone lib="Lupski sympathetic trunk"
/note="Vector: pGWV-SPORT6 (Life Technologies); Site_1:
Not1; Site_2: Sal1; CDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-GACTAGGTCGGGGGGGGGGGCGCCCT(15)-3'. Size selected >
1 kb for average insert length 1.9 kb. This is a primary library, non-amplified Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine); available through Life
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Pred. No. 1.4e-150;
0; Mismatches 21;
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     /clone="IMAGE:6189465"
/sex="male"
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96.9%;
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Best Local Similarity 96.9
Matches 789; Conservative
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AGENCOURT_8109142 Lupski_sympathetic_trunk Homo sapiens cDNA clone
MACE:6189465 5', mRNA sequence.
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11 (bases 1 to 869)
11 MGC ettp://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
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Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM1386 row: 1 column: 10
High quality sequence stop: 634.
TGTTGAAGAAGGTCGTGTCGGTCCATCCGGGAGATGTGCTCATCACCTTCCTGCACGTACA
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

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National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished
Contact: Robert Strausberg, Ph.D.
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Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
E 1 (bases 1 to 921)
S NIH-MGC http://mgc.nci.nih.gov/.
L Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies of Sequence distribution: MGC clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://mage.llnl.gov
High quality sequence stop: 603.
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/note="Vector: pGWV-SPORT6 (Life Technologies); Site_l:
/note="Vector: pGWV-SPORT6 (Life Technologies); Site_l:
/note="Vector: pGWV-SPORT6 (Life Technologies); Site_l:
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/dev_stage="adult, 16 yr"
/lab_host="DH10B"
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/db_xref="taxon:9606"
/clone="IMAGE:6189368"
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Best Local Similarity 95.0%;
Matches 816; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (human)
Homo sapiens
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/mol type="mRNA"
/db xref="taxon:966"
/clone="CSDDA002YGOT"
/tissue type="NEUROBLASTOWA"
/clone Ith="Homo sapiens NEUROBLASTOWA"
/clone Ith= Not I old old sapiens of the pcwVSPORT 6 vector.
Library was not normalized."
                                                                                                                                                                                                                                                                                                                                                                         BX412000

947 bp mRNA linear EST 13-MAY-2003
BX412000 Homo sapiens NEUROBLASTOMA Homo sapiens cDNA clone
CSODA002YG07 3-PRIME, mRNA sequence.
                                                                                                                                                1603 AGTICACCICIGITCCCI - GGAACTCCTTCAACCGCGACGTACTGAAGGCCCTGTACAG 1660
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    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 947)
1 ("A" B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
BR 191 91006 EVRY cedex - France
Libraris expensécope.cna.fr,
Invirrogen. This sequence belongs to sequence cluster 5245.f For more information about this cluster, see
http://www.genoscope.nn.fr/
cgi-bin/cluster.cgi?seq-CSOBAK007CGOZNMI&cluster=5245.f. Contact
Frog Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSOBAK007CGOZNMI.
                                                                                         722 CACCGGGTCTACAACGAGGATGTCTGTGGCCTGGCCTCAAGCGGTCCCGGGTGTCCAGCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26.0%; Score 709.2; DB 13; Length 947; llarity 92.7%; Pred. No. 3e-143; Conservative 0; Mismatches 58; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
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BX412000/c
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/tissue_type="neuroblastoma"
/tab.host="bill08 (phage-resistant)"
/clone lib="NHH MGC 19"
/note="Organ: brain; Vector: pOTB7; Site 1: XhOI; Site 2:
BGORI; cDNA made by oligo-dr priming. Directionally
cloned into EcoRIXAhOI sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC Library."
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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov Plate: LLCM1027 row: a column: 16 High quality sequence stop: 696.
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                                                                                                                         organism="Homo sapiens"
                                                                                                                                            /mol_type="mRNA"
/db xref="taxon:9606"
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Best Local Similarity 92.6
Matches 796; Conservative
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Pred. No. 1.9e-140;
0; Mismatches 3;

    .824
    /organism="Homo sapiens"

     High quality sequence stop: 765.
Location/Qualifiers
1. .824
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Best Local Similarity 99.1%;
Matches 742; Conservative
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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On Feb 13, 2001 this sequence version replaced gi:12789131.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
BRail: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5245.f For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seg=CSODC012DBO5NP1&cluster=5245.f. Contact :
Feng Liang Email : fliang@lifetech.com URL :
http://full.length.invitrogen.com/ InvitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODC012DE05NP1.
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1 (bases 1 to 808)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
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Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://mage.llnl.gov
Plate: LLCMAG15 row: b column: 19
High quality sequence stop: 698.
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/clone_lib="HOmo sapiens NEUROBLASTOMA_COT_25-NORMALIZED"
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Pred. No. 6.8e-139;
7; Mismatches 10;
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25.3%;
Best Local Similarity 97.4%;
Matches 702; Conservative
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5 bp mRNA linear EST 30-OCT-2001 sapiens cDNA clone IMAGE:5434471 5',

BM013385 603635129F1 NIH_MGC_47 Homo s

/mol_type="mcmax" current //mol_type="mcmax" //mol_ 1870 1930 2051 TGACCTACCCTGGACCGAGTGGACCACGACCTCGTCCATTTAAACCCGGCTGACTCAGTG 2110 120 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

 (bases 1 to 916) Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ArCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/Link at:
http://image.llnl.gov
Plate: LLCM.911 row: j column: 08
High quality sequence stop: 696.
Location/Qualifiers
irce
1. 916 þe 1691 GTCCTCAGCCGTCCGCTTCCAGGGTGAATGGAACCTGCAGCCCCTGCCCAAGGTCATCTC 61 CACACTGGAAGAGCCCACCACCAGCCCACCAGCCGAAGCCCTGTTGGCCC CATGCTGTCCCTGTGGGCTCACACGGCACTGTGCACTCTACTCTGCGACGATCCCCATG CACACTGGAAGAGCCCAACACAGAGCCCCACCAGGCAAGGCCGAAAGCCCTGCTGGCCGC CACCGTTGTCAGCATTGGTGGGGCAAAGGCTGAGGGGGGGACCTACTCCTCCCCCTCCTC caccerrercaccarregregescaaassereassessescencercerecerere CCAATCCAGCCTTCTTCCCCCAGGGTCCCCTGCATGGCTGAGAGGGTGTGGGTGCCCTGT CCAATCCAGCCTTCTTCCCCCAGGGTCCCCTGCATGGCTGAGGGGTGTGGGTGCCCTGT 4; Gaps NIH-MGC http://mgc.nci.nih.gov/. Nati-MGC http://mgc.nci.nih.gov/. Nati-MGI Institutes of Health, Mammalian Gene Collection Unpublished Length 916; 24.7%; Score 673.6; DB 12; Length 96.9%; Pred. No. 1.6e-135; .ive 0; Mismatches 19; Indels Contact: Robert Strausberg, Ph.D. organism="Homo sapiens" BM013385.1 GI:16527739 Conservative Homo sapiens Homo sapiens 1991 301 ò d ò

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/db_xref="Laxon:9606"
/db_xref="Laxon:9606"
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/clone lib="NNH MGC 10"
/clone lib="NNH MGC 10"
/clone lib="NNH MGC 10"
/clone lib="NNH MGC library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript IR T (Life Technologies).
Note: this is a NIH MGC Library."
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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
E 1 (bases 1 to 764)

S 1 (bases 1 to 764)

NH-MCC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CONA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM1013 row: i column: 12
High quality sequence stop: 719.
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Homo sapiens
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Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 875)
NIH-MCC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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    Length 764;
    DB 10;
Score 672.8; DB 10,
Pred. No. 2.2e-135;
0; Mismatches 17;
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24.7%;
96.9%;
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Query Match
Best Local Similarity 96.9
Matches 729; Conservative
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176

836

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1. 884

/organism="Homo sapiens"
/mol type="mRNA"
/mol type="mRNA"
/db xref="taxon:9606"
/clone="InHaGE:4130938"
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/clone=lib="NH10B (phage-resistant)"
/cloned into BcoRI/Anol sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

**TATA 282 C 274 g 177 t
                                                                                       2289 ACATTICCCTGCTGAGTGGCTCGTGTTTCACAGTGGGCGGCTTCCCTGCGACGGAGGAG
                                                                                                                                                                        2349 GACCAGGCATTTAGCTAGTTAGAGACTCGCCTGGGAAATTGCTCCATTCCTGAGTAAACA 2408
                                                                                                                                                                                                                                                                                                                                      2469 CAAAGATCCAGCGGGGCTTCTGGG--CGCCGGTTCCACGTGGGGTGGAATTATTAGCACC 2526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BF314790 884 bp mRNA linear EST 21-NOV-2000 601901748F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130938 5',
                                                                                                                                                                                                        657 GGACAGGCATTTAGCTAGTTAGAAGACTCGCTGGGAACTGGCTCCAGTCTGAGTAAACAG 716
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1 (bases 1 to 88)
NIH-WGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ArCs
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM1027 row: p column: 11
High quality Sequence stop: 728.
Location/Qualifiers
                                                                                                                                                                                                                                                                                       717 ATATTTTCGCCCACCTAAACGGAAGCCCTGACAAAAACTATAACAAAAAGACGAGGCGG
          GGAACGCCCCCCCCCCCCCCCCCCCCCCCGGTGTGCAGCGGGTGCCGGTTGCCCCTTAA
                                                                                                                                                                                                                                                         2409 GATATITICGCCCACCTAAAGGGAAGCCCTGACAACAACTATCACCAAAAGACGAGGCGG
                                                                                                                                                                                                                                                                                                                                                                             Score 664.2; DB 10; Length 884; Pred. No. 1.7e-133;
                                                                                                                                                                                                                                                                                                                                                                                                                     2527 AGCTTGCTTCTGCCGGTGGGGC 2550
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99.1%;
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Homo sapiens
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BF314790
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BF314790
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TITLE
JOURNAL
COMMENT
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/mol_type="minds" suprems
/db xref="taxon:8606"
/clone="InAGE:5421955"
/tissue type="minds" suprems
/lab_host="PH10B (phage-resistant)"
/clone=line="NHH MGC_47"
/note="organ: brain; Vector: pOTB7; Site 1: Xhol; Site 2:
ECORI; cDNA made by oligo-dT priming. Directionally
cloned into ECORI/Khol sites using the following 5;
adaptor: GGGAGGIG: Size-selected >500pp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
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              Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Arro
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1878 row: p column: 20
High quality sequence stop: 671.
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Pred. No. 8.4e-135
0; Mismatches 68
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                                                                                                                                                                                                                                                                                     organism="Homo sapiens"
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Best Local Similarity 91.2%;
Matches 788; Conservative
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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov Plate: LLCM310 row: n column: 17 High quality sequence stop: 660.

Location/Qualifiers
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Pred. No. 2.8e-132;
); Mismatches 21;
                                                                                                                                   /organism="Homo sapiens"
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96.6%;
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Bukaryota.

Mammalla; Butheria; Primates; Catarrhini; Hominidae; Homo.

I (bases 1 to 713)

III. (bases 1 to 714)

III. (base
                                                                                                                                                     CTCCGCCAGCCCTGTTCCGCCTCACTGGGTGTGGCCTGCTTCTGGGACAGGCACCATGC
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BE382698.1 GI:9328063
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699; Conservative
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SOURCE
ORGANISM
  Matches
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120

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667

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Gaps

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180

787 240 847 300

907

360

1147

600

1027

480

420

967

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/lab host="DH10B" (phage resistant)"
/lab host="DH10B" (phage resistant)"
/clone lib="NIH MGC 19" / Vector: poTB7; Site 1: XhoI; Site 2: RooR1; cDNA made by oligo-dT priming. Directionally cloned into EcoR1/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Garald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."
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601897245FI NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126571 5',
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11 MIH-MGC Http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
Found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
High quality sequence stop: 732.
Location/Qualifiers
                                                                                                                                         CCCTGCTTTTCAAGAGGCCCTTTGGCACCTGCGACCCCAAGGATTACCTCATTGAAGACG
                                                                                                                                                                                                                                                           494 CCCTGCTTTTCAAGAGGCCCTTTTGCACTGCGACCCCAAGGATTACCTCATTGAGGACG
                                                                                                                                                                                                                                                                                                                                                       361 ACCTGGATCCCCAGCAGGACTACCAGCTGCAGGTGCAGAGGACCCCAGAAGGCCTGA
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23.2%; Score 633; DB 10; Length 945;
Best Local Similarity 90.8%; Pred. No. 1e-126;
Matches 767; Conservative 0; Mismatches 60; Indels 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4126571"
/tissue_type="neuroblastoma"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
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BF311746.1 GI:11259506
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By 19 19106 EVRY cedex - France

Brail: sequence occurrent actions of the following of the following occurrent of following occurrent o
                                                                                                                                                    AL525444 Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED Homo sapiens CDNA clone CSODC012YJ10 5-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo. Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue type=="NEGROBLASTOWA COT 25-NORWALIZED"
/clone_lib="Homo sapiens NEUROBLASTOWA COT 25-NORWALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
a 257 c 240 g 154 t 9 others
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661 TCTTCGCTCTCAG---TCCACACACTGATGGGAGAACGGTGGCCCC 705
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Pred. No. 6.4e-127;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DC012xJ10"
                                                                                                                                                                                                                                                                         AL525444.2 GI:31063308
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                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                                       Contact: Robert Strausberg, Ph.D.
Email: cgapbe-remail.nih.gov
Tissue Procurement: ATCC
Tissue Procurement: ATCC
Tissue Procurement: ATCC
Tissue Procurement: ATCC
Tissue Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM1028 row: d column: 18
High quality sequence stop: 670.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAATATCCCCGAACCGGAGTTGCCCTCAGACGCGTGCACCATGGAGGTCCAAA
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                      1 (bases 1 to 759)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Pred. No. 1.7e-126;
); Mismatches 22; Indels 8;
Mammalia, Eutheria, Primates, Catarrhini, Hominidae,
                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
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/db_xref="taxon:9606"
/clone="IMAGE:4131041"
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96.0%;
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Best Local Similarity 96.0
Matches 723; Conservative
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759 bp mRNA linear EST 21-NOV-2000 601902066F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4131041 5', mRNA 8equence.
BF316475
BF316475.1 GI:11264832
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                 TACAAACTICTICCCACAGGGTCCCCTGCATGAAGGAGAAGTGATGAGTACCCTATTACA 647
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                     CTACCCTGGACC-GAGTGGACCACGACCTCGTCCATTTAAACCCGGCTGACTCAGTGCAG
                                                                                   646 chaccingaccadadacacacacacacatrithancaaactractractaca
                                                                                                                                            2174 GTGTGGCCTGGCTTCTGGGACAGCACCATGCTGGGCCGGGGTGTGGAATCACCGGGAAC
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                                                                                                                   2114 GGACAGCCCGCACAGGTCCAGGGTCCAGCCCTCCGCCAGCCCTGTTCCGCCTCACTGG
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Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at: image.llnl.gov
High quality sequence stop: 720.
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National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished
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Genoscope - Centre National de Sequencage
BP 191006 EVRY cedex - France
BRA11: seqrefégenoscope.cns.fr Www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 5245.f For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq-CSOBAKO03CALSMIR.:
Feng Liang Email: filang@lifetech.com URL:
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSOBAKO03CALSMMI.
                                                                                                                  1183
                                                                                                                                                                       ACTGCCTCCCGGGATCCACATCTTCGCCTCTCAGCTCCACACACCTGACTGGGAG 1243
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/db_xref="taxon:9606"

/db_xref="taxon:9606"

/db_xref="taxon:9606"

/done="toB80112C07"

/tissue_type="NEUROBLASTOMA"

/clone_lib="Hamo sapiens NEUROBLASTOMA"

/note="Vector: pCMVSPORT 6; lst strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the pCMVSPORT 6 vector.
GTGATAGACAGGACGAAACGACTCCTCAGGCATCCGCTTGTACTACACAGCCAAGCTGCG 541
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Catarrhini; Hominidae; Homo.
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                                 GCGCTTCAACGCGGGGATCATGGAGCTGGACTGGTGTACACGCCAGTGATGGCCATTCC
                                                          1124 ACCACGGGAGACGCCTTCATCCTCACTGGCTACTGCACGGACAAGTGGACCGAGTGGC
                                                                                                                         1935 AGCCCTGCACGCCCAGGATGAAGGGGCCAGACCACGCCCCTGACGAGACCACGGTCCAA
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Mammalia; Butheria; Primates; Catarrhini; Hon
1 (bases 1 to 908)
Li, M.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished
                                                                                                                                                                                                                                     1244 AAAGGIGGICACAGIGCIGGICCGGGACGGCCG 1276
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0; Mismatches 66;
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BX411774.1 GI:30763182
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/tissue type="neutoblastoma"
/lab host="neutoblastoma"
/lab host="neutoblastoma"
/lab host="nulloB (phage-resistant)"
/clonellb="Null MGC_19"
/note="Organ: brain; Vector: poTB7; Site_1: XhoI; Site_2:
BCORI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L Unpublished
Contact: Robert Strausberg, Ph.D.
Email: capabs.remail.nih.gov
Tissue Prcourement: ATC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at: image.llnl.gov
Plate: LLCM1858 row: d column: 06
High quality sequence stop: 626.
Location/Qualifiers
                                                                                                                                                     BI195352 626 bp mRNA linear EST 10-JUL-2001 602944718F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:5092565 5',
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 626)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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  --GGGTGGGGTCAGGCTGGGC-TTCCGCGTGGTCTGCACTTAGGAGTGTG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol_type="mRNA"
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/clone="IMAGE:5092565"
                                                                                                                                                                                                                                                       BI195352.1 GI:14650372
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                                                   organism="Homo sapiens"
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/mol_type="mRNA"
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/db_txefe="hazon:9666"
/clone="TMAGR:3502089"
/lab.bost==DBH10B (phage-resistant)"
/lab.bost==DBH10B (phage-resistant)"
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Contact: Robert Strausberg, Ph.D.
Email: capaba-rémail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be Plate: LLCMIYS row: g column: 18
High quality sequence stop: 598.
Location/Qualifiers

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I (bases 1 to 605)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                       CTCCCTCCGGGATCCACATCTTCGCCTCTCAGCTCCACACACGCTGACAGGAAAGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota: Netazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota: Metazoa; Chordata; Catarrhini; Hominidae; Homo.

I (bases 1 to 898)

S NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics. Inc.
Clone distribution: MGC Clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
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                                                                                                                                                                              120
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BF316292.1 GI:11264633
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                                                                                                                           1344 AAGGTCGTGTCCATCCGGGAGATGTGCTCATCACCTGCTGCACGTACAACACGGAA
                                                                                61 GACCGGGAGCTGGCCACAGTGGGGGGCTTCGGGATCCTGGAGGAGATGTGTGTCAACTAC
                                                                                                                                                                                                                                                                                       1524 CIGCAGAAGTACTTCCACCTCATCAACAGGTTCAACAAGGAGGATGTCTGCACCTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                       CTGAAGGCCCTGTACAGCTTCGCGCCCATCTCCATGCACTGCAAGTCCTCAGCCGTC
                                          0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 CCCACCCCACAGAGCCCACCAGGCCGAGGGCCGAGGCCTGCTGGGCCCCACCGTTGTCAGC
                                    3; Indels
            Pred. No. 1.8e-119;
0; Mismatches 3;
99.5%; Pred
0;
                       601; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (human)
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/tissue type="neurolist"
/lab_host="neurolist"
/lab_host="neurolist"
/cloc=lb="NHH MGC 19"
/note="Organ: brain; Vector: poTB7; Site_1: Xhol; Site_2:
/note="Organ: brain; Vector: poTB7; Site_1: Xhol; Site_2:
EcoXI; cDNA made by oligo-dT priming. Directionally
cloned into EcoXI/Xhol sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
                                                                                                           BF311996 872 bp mRNA linear EST 21-NOV-2000 601897850F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127172 5', mRNA sequence.
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                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 872)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished
                                                                                                                                                                                                                                                                                                                         GECGGTGTCTCAGCAGTTCACCTCTGTTCCCTGGAACTCCTTCAACTGCGACGTACTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGCCCTGTACAGCTTCGCGCCCATCTCCATGCACTGCAACAAGTCCTCAGCCGTCCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1769 CCCACAGTGCCCCACCAGCCCAAGCCCGTGCTGGCCCCACCGTTGTCAGCATTGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62 GGCCCTGTACAGCTTCGCGCCCATCTCCATGCACTGCAACAAGTCCTCAGCCGTCCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCAGGGTGAATGGAACCTGCAGCCCCTGCCCAAGGTCATCTCCACACTGGAAGAGCCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21.9%; Score 596.8; DB 10; Length 872; llarity 93.7%; Pred. No. 6.9e-119; Conservative 0; Mismatches 37; Indels 10;
    2374 CTCGCCTGGGAAATTGCTCCATTCCTGAGTAA 2405
                                   741
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                            713 ATCGCTGGG---AATGGTCCATTCTTGAGTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4127172"
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                                                                                                                                                                        BF311996.1 GI:11259775
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Best Local Similarity
Matches 699; Conserv
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SOURCE
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DEFINITION
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ORIGIN
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AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGAATGGAACCTGCCCCTGCCCAAGGTCATCTCCACATGGAAGAGCCCACCCCACA 1774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAAAGGCTGAGGGGGACCTACTCCTCCTCCTCCATGCTGTCCTGTGGGCTCACAC 1894
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGGTCCAGCCCTCCGCCAGCCCTGTTCCGCCTCACTGGGTGTGGCCTGGCTTCTGGGAC 2194
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                                                                                                                                                                                                                                                                                                                               DB 10; Length 898;
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                                                                                                                                                                                                                                                                                                                                                              24;
                                                                                                                                                                                                                                                                                                                            21.9%; Score 597.6; DB 10
95.1%; Pred. No. 4.7e-119;
iive . 0; Mismatches 24;
High quality sequence stop: 616 Location/Qualifiers
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